

Functional Differential Equations with Anticipation and Retardation

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Functional Differential Equations involving anticipation (advance) and retardation (delay) parameters are of interest in the study of phenomena containing feedback and feedforward interactions in their evolution. Such functional DEs can be used to model dynamical systems exhibiting certain symmetry in the evolution. More specifically, aeroelastic oscillators in physiology, nerve conduction theory and lattice differential equations are some specific areas in which such equations arise. We discuss existence results and some recent developments in the study of such FDEs.

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